

WHAT IS CLAIMED IS:

1. A video output device comprising:

an aspect ratio detecting unit configured to detect an aspect ratio of a input video;

5 a first blank adding unit configured to add a blank on both left and right sides of the video to produce a video having an aspect ratio of 16/9, in a case where the aspect ratio detected by the aspect ratio detecting unit is 4/3;

a second blank adding unit configured to add a blank
10 on both upper and lower sides of the video to produce a video having an aspect ratio of 4/3, in a case where the aspect ratio detected by the aspect ratio detecting unit is 16/9;

a setting unit configured to enable one of the first
15 and the second blank adding units and to disable the other;

an output unit configured to output the video having a changed aspect ratio produced by either one of the first and the second blank adding units enabled by the setting unit;

20 a blank video detecting unit configured to detect whether or not a predetermined range on both left and right sides of the input video is uniform, and to detect whether or not a predetermined range on both upper and lower sides of the input video is uniform; and

25 a brightness detecting unit configured to detect a

brightness of a predetermined range on both left and right sides of the input video, and to detect a brightness of a predetermined range on both upper and lower sides of the input video,

5 wherein when the blank video detecting unit detects that the predetermined range of the input video on both left and right sides, or on both upper and lower sides, is uniform, the first and the second blank adding unit adjust a brightness and a color of the blank to be added
10 so as to coincide with the brightness and a color of the predetermined range of the input video, and

 wherein when the blank video detecting unit detects that the predetermined range of the input video on both left and right sides, and on both upper and lower sides,
15 is not uniform, the first blank adding unit adjusts the brightness of the blank to be added in accordance with the brightness of the predetermined range of the input video on both left and right sides, and the second blank adding unit adjusts the brightness of the blank to be added in
20 accordance with the brightness of the predetermined range of the input video on both upper and lower sides.

2. A video output device comprising:

 an aspect ratio detecting unit configured to detect an aspect ratio of a input video;

25 a blank adding unit configured to add a blank on both

left and right sides of the video to produce a video having an aspect ratio of 16/9, in a case where the aspect ratio detected by the aspect ratio detecting unit is 4/3;

an output unit configured to output the video having
5 the aspect ratio of 16/9 in which produced by the blank adding unit; and

a brightness detecting unit configured to detect a brightness of a predetermined range on both left and right sides of the input video,

10 wherein the blank adding unit adjusts a brightness of the blank to be added in accordance with the brightness detected by the brightness detecting unit.

3. The video output device as claimed in claim 2 further comprising a blank video detecting unit configured to
15 detect whether or not a predetermined range on both left and right sides of the input video is uniform,

wherein when the blank video detecting unit detects that the predetermined range of the input video on both left and right sides is uniform, the blank adding unit
20 adjust the brightness and a color of the blank to be added in accordance with the brightness and a color of the predetermined range of the input video.

4. The video output device as claimed in claim 3, wherein when the blank video detecting unit detects that the
25 predetermined range of the input video on both left and

right sides is uniform, the blank adding unit adjust the brightness and a color of the blank to be added so as to coincide with the brightness and a color of the predetermined range of the input video.

5 5. A video output device comprising:

an aspect ratio detecting unit configured to detect an aspect ratio of a input video;

10 a blank adding unit configured to add a blank on both upper and lower sides of the video to produce a video having an aspect ratio of $4/3$, in a case where the aspect ratio detected by the aspect ratio detecting unit is $16/9$;

an output unit configured to output the video having the aspect ratio of $4/3$ in which produced by the blank adding unit; and

15 a brightness detecting unit configured to detect a brightness of a predetermined range on both upper and lower sides of the input video,

20 wherein the blank adding unit adjusts a brightness of the blank to be added in accordance with the brightness detected by the brightness detecting unit.

6. The video output device as claimed in claim 5 further comprising a blank video detecting unit configured to detect whether or not a predetermined range on both upper and lower sides of the input video is uniform,

25 wherein when the blank video detecting unit detects

that the predetermined range of the input video on both upper and lower sides is uniform, the blank adding unit adjust the brightness and a color of the blank to be added in accordance with the brightness and a color of the predetermined range of the input video.

7. The video output device as claimed in claim 6, wherein when the blank video detecting unit detects that the predetermined range of the input video on both upper and lower sides is uniform, the blank adding unit adjust the brightness and a color of the blank to be added so as to coincide with the brightness and a color of the predetermined range of the input video.